ABSTRACT OF THE DISCLOSURE

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A wireless communication IC exchanges data with an external device by receiving a radio signal having a given carrier frequency as power supply from the external device through an antenna. The wireless includes a capacitor for communication IC storing electric power, a diode placed between one end of the antenna and the capacitor, for supplying a charge current of the radio signal to the capacitor on a half cycle of the received radio signal; and a modulation circuit. The load modulation circuit is driven by receiving power supply from the capacitor on another half cycle of the radio signal different from a half cycle for supplying a charge current to the capacitor.